

# DAIRY NUTRIENT MANAGEMENT PROGRAM



Source: Whatcom Conservation District

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Washington  
State Department of  
Agriculture

# Dairies Must

- Dairy Nutrient Management Act - 90.64 RCW (DNMA)
  - All dairies required to
    - register with program
    - develop a nutrient management plans (NMP) that is approved and certified by local conservation district
    - Operate in way that there is not a discharge to waters of the state
    - Maintain records that show agronomic applications of all nutrients

## All other AFOs Must

- Water Pollution Control Act - 90.48 RCW
  - All animal feeding operations (AFOs) required to
    - Operate in way that there is not a discharge to waters of the state

# Authorities

Livestock/Manure	Routine Inspections	Complaint Responses	Informal Enforcement	Formal Enforcement	CAFO Permit Administration
<b>Non-permitted dairies</b> <i>WSDA Lead, Chapter 90.64 RCW</i>	WSDA	WSDA	WSDA	WSDA <i>If discharge, coordinate per MOU</i>	Ecology <i>Determines if permit is required per MOU</i>
<b>Permitted CAFOs, dairy and non-dairy</b> <i>Ecology Lead, Chapter 90.48 RCW</i>	WSDA <i>Established by MOU</i>	WSDA <i>Established by MOU</i>	WSDA <i>Coordinated per MOU</i>	Ecology/WSDA <i>Coordinate per MOU</i>	Ecology <i>WSDA assists per MOU</i>
<b>Non-permitted other AFOs and CAFOs</b> <i>Ecology Lead, Chapter 90.48 RCW</i>	N/A	Ecology	Ecology	Ecology	Ecology
<b>Non-AFOs - Pasture, Rangeland or Small Livestock</b> <i>Ecology Lead, Chapter 90.48 RCW</i>	N/A	Ecology	Ecology	Ecology	N/A
<b>Manure complaints</b> when the responsible party is uncertain <i>WSDA lead for initial response and to determine if dairy is responsible per MOU</i>	WSDA will handle follow up if dairy is responsible Ecology may handle follow up with any non-dairy party				

# DNMP Mission

## **Mission:**

- Protect water quality from livestock nutrient discharges
- Help maintain a healthy agricultural business climate



## Program must

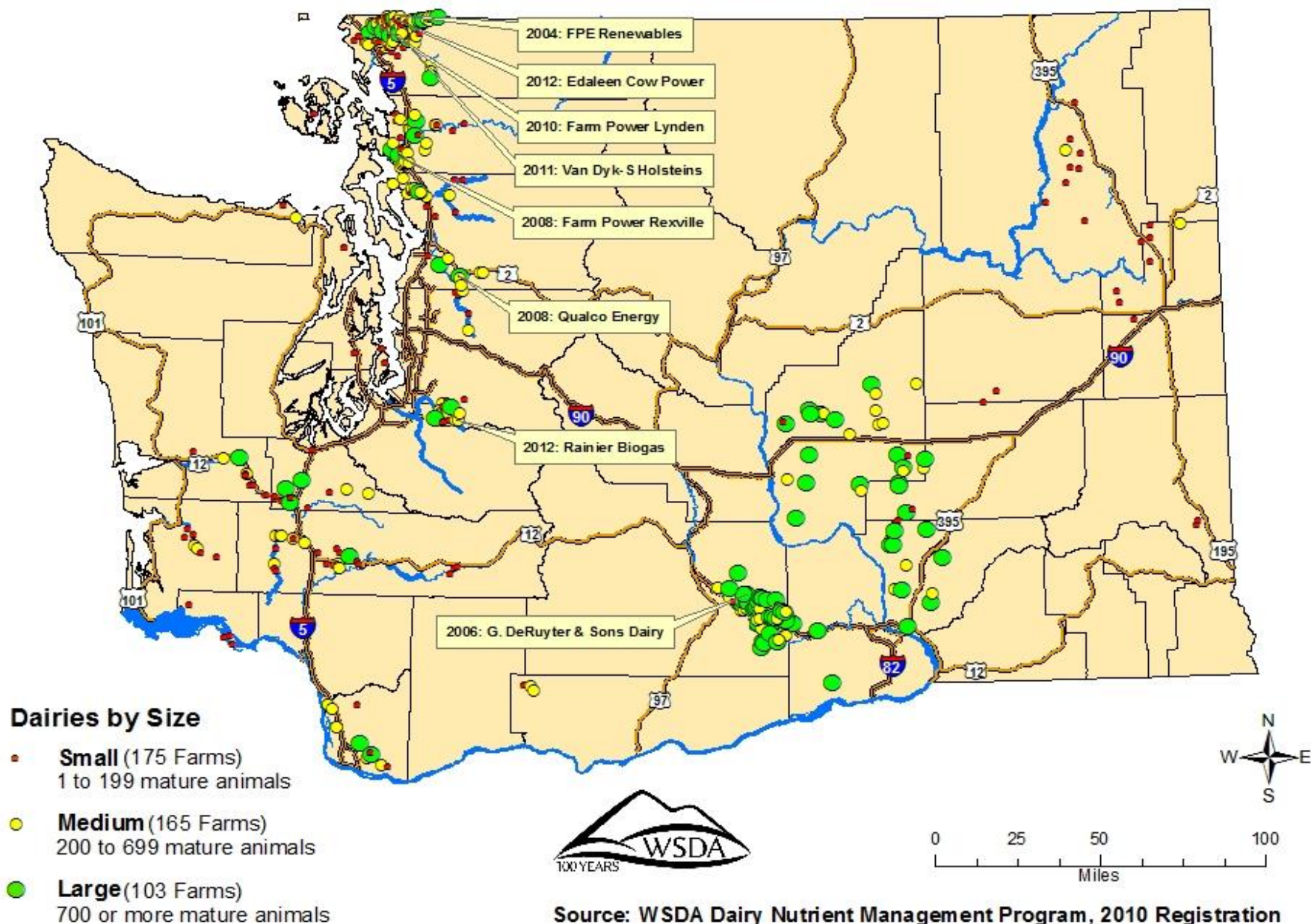
- Dairy Nutrient Management Act - 90.64 RCW (DNMA)
  - Program includes an inspection program to
    - Survey for evidence of violations;
    - Identify corrective actions for actual or imminent discharges that violate or could violate the state's water quality standards;
    - Monitor the development and implementation of dairy nutrient management plans; and
    - Identify dairy producers who would benefit from technical assistance programs.

# Animals/Acres/Exports

	Mature Animals	Total Acres	Export off farm	Dairy Soil N Acres Acceptable	Dairy Soil N Acres Needs Attention
Statewide - 416 Dairies	269,246	168,073	44%	96.8%	3.2%
Yakima – 69 Dairies	103,089	28,743	85%	88.1%	11.9%



# Washington Cow Dairies and Digesters, December 2012





# How we do our work

- Clear guidance, education, and technical assistance
- Equitable enforcement of state and federal water quality laws
- Good communication with industry, related agencies, and other stakeholders



# DNMP Inspections



## Records

- Soil Analysis
- Nutrient Transfer
- Nutrient Analysis
- Irrigation
- Application

# DNMP Inspections

## Facility condition

- Collection and conveyance
- Clean water diversion
- Curbing to keep manure in



# DNMP Inspections



## Lagoons

- Capacity
- Dike Condition
- Solids



# DNMP Investigations

Complaints from citizens and sister agencies and/or surveillance may trigger an investigation

Meet with  
producers to  
identify the  
problem and  
find a  
solution



# DNMP Investigations



## Common Issues

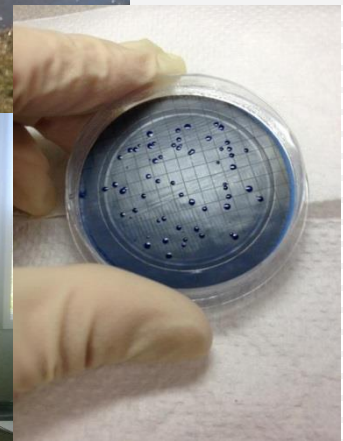
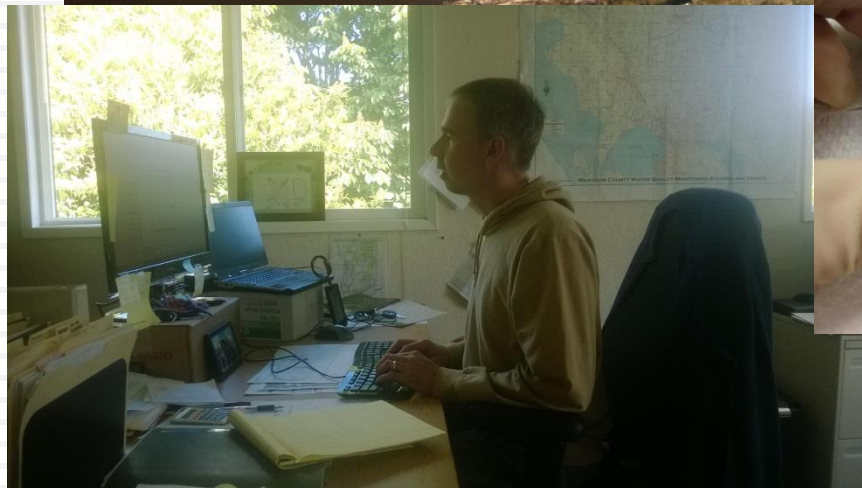
- Lagoon at capacity
- Animal access to surface water
- Field conditions lead to discharge
- Over-application of nutrients and suspected ground water contamination





# DNMP Investigations

- Review Records
- Pull Samples
- Take Pictures
- Work with stakeholders
- Write recommendation for enforcement



# The results

Approximately 95% of issues addressed through informal enforcement (Warning Letter, Notice of Correction), come into compliance. A small percentage proceed to formal enforcement (Notice of Civil Penalty)



# Partners

## • INTERNAL (WSDA)

- Food Safety Program
- Natural Resource Assessment Section
- Organic Program
- Pesticide Division

## • DAIRIES

## • PUBLIC

- Indian Nations
- Washington Dairy Federation
- Dairy Products Commission
- Anaerobic digester facilities
- Local watershed groups
- Shellfish growers
- Environmental organizations

## • EXTERNAL

- Environmental Protection Agency (EPA)
- USDA NRCS
- Department of Ecology
- Conservation Commission
- Washington State University Extension/Sustainability Center
- Department of Health
- Conservation Districts
- Local Health Departments
- Local Shellfish Protection Districts



# Any Questions?



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